

## mEOS2 pAb

### Quality Control Certificate of Analysis

Catalogue No.: A010-mEOS2

Unit Size: 50 µg

Lot No: 642025

**Background:** GFP was introduced as a tool for molecular biology over 20 years ago and is thought of as one of those most significant contributions to modern microscopy. Many related fluorescent proteins are subject to oligomerisation and photobleaching and as such, limit the resolution obtainable from their use. mEOS2 is a photoactivatable green to red photoconvertible fluorescent protein derived from Anthozoa. It has recently emerged and is set to make significant contributions to the enhancement of super resolution microscopy for the study of cellular ultra structure and protein trafficking. There are already a number of papers describing its use in the developing field of Photoactivated localisation microscopy (PALM) reversible saturable optical fluorescence transitions (RESOLFT), stochastic optical reconstruction microscopy (STORM) and three-dimensional high-resolution imaging (McKinney et al. 2009). A010-mEOS2 is a protein A affinity purified rabbit polyclonal antibody raised against purified mEOS2 expressed in E.coli and stains mEOS2 fusion proteins expressed in bacteria and mammalian cells in both western blotting and immunofluorescence microscopy applications.

**Description:** Lyophilised **Rabbit** polyclonal protein A affinity purified antibody (A010-mEOS2)

**Immunogen:** Purified mEOS2 expressed as a GST fusion protein in BL21 Rosetta E.coli cells.

**Antibody Isotype:** IgG.

**Antibody Purity:** Protein A Affinity Purified

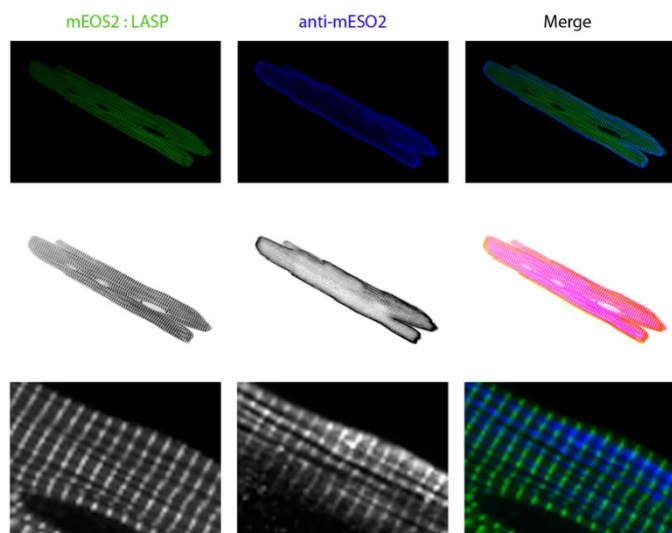
**Specificity:** Antibody stains purified mEOS2 and mEOS2 fusion proteins from a bacterial lysate, but does not stain for GST.

**Storage Instructions:** Lyophilised antibody is stable at 4 °C when stored with desiccant. Reconstitute lyophilised powder in 50 µl of 18 MΩ H<sub>2</sub>O for a 1mg/ml solution with stable buffering conditions. Aliquot and store frozen at -80 °C for 1 year. Avoid freeze - thaw cycles.

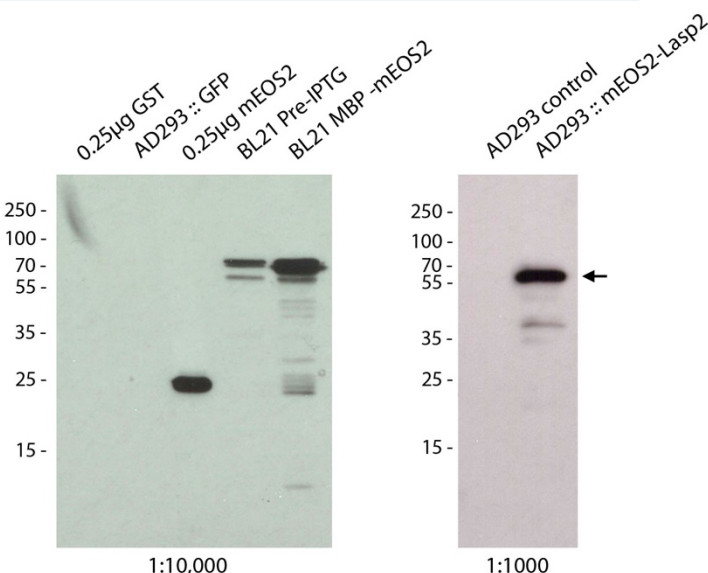
#### Tested Applications:

**WB 1:10,000 for high expression, 1:1000 for low level expression**

**Vial Constituents:** Lyophilised A010-mEOS2 Rabbit antibody (50 µg)



IF staining of rat cardiac myocytes expressing mEOS2-Lasp2 using 1:500 mEOS2 antibody WB using mEOS2 antibody



WB using mEOS2 antibody  
Against purified mEOS2, maltose binding protein-mEOS2 expressed in E.coli and mEOS2-Lasp2 fusion protein expressed in Ad293 cells

**Related Products:** A010-pGFP, A010-mCherry

#### Background References:

- MCKINNEY, S. A., MURPHY, C. S., HAZELWOOD, K. L., DAVIDSON, M. W. & LOOGER, L. L. 2009. A bright and photostable photoconvertible fluorescent protein. *Nat Methods*, 6, 131-3.